

<110> Karunanandaa, Balasulojini
Yu, Jaehyuk
Kishore, Ganesh M.

<120> NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED
WITH STEROL SYNTHESIS AND METABOLISM

<130> 05686.0004.NPUS00

<150> US 60/142,981

<151> 1999-07-12

<160> 626

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<211> 1358

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<213> Glycine max

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<221> CDS

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atg gag tac tct tac ctg tta gat atg gcg gac aag act gag gat cca 101
Met Glu Tyr Ser Tyr Leu Leu Asp Met Ala Asp Lys Thr Glu Asp Pro
15 20 25

tac atg aga cta gta tat gct tca tca ttc ttt ata tct gtc tac tat 149
Tyr Met Arg Leu Val Tyr Ala Ser Ser Phe Phe Ile Ser Val Tyr Tyr
30 35 40

gcc tat caa cga acg tgg aag cca ttc aat cca att ctt ggt gag act 197
Ala Tyr Gln Arg Thr Trp Lys Pro Phe Asn Pro Ile Leu Gly Glu Thr
45 50 55

tat gaa atg gtt aac cat ggt ggc att aca ttt ata tca gag cag gtc 245
Tyr Glu Met Val Asn His Gly Gly Ile Thr Phe Ile Ser Glu Gln Val
60 65 70

agt cat cac cct cca atg agt gct ggg cat gct gaa act gaa cat ttc 293
Ser His His Pro Pro Met Ser Ala Gly His Ala Glu Thr Glu His Phe
75 80 85 90

act tat gat gtt aca tca aaa ttg aaa acc aaa ttt ctc ggc aac tca 341
Thr Tyr Asp Val Thr Ser Lys Leu Lys Thr Lys Phe Leu Gly Asn Ser
95 100 105

gtt gat gta tat cct gtt gga aga acg cgt gtt acc ctc aaa aga gat	389
Val Asp Val Tyr Pro Val Gly Arg Thr Arg Val Thr Leu Lys Arg Asp	
110 115 120	
ggt gtg gtc ctt gat ttg gtg cct cct cct aca aaa gtt agc aac ttg	437
Gly Val Val Leu Asp Leu Val Pro Pro Pro Thr Lys Val Ser Asn Leu	
125 130 135	
att ttt gga cga act tgg att gat tca cca gga gag atg atc ctg aca	485
Ile Phe Gly Arg Thr Trp Ile Asp Ser Pro Gly Glu Met Ile Leu Thr	
140 145 150	
aat ctg act aca ggg gac aaa gtg gtg ctg tat ttt caa cca tgt ggc	533
Asn Leu Thr Thr Gly Asp Lys Val Val Leu Tyr Phe Gln Pro Cys Gly	
155 160 165 170	
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Trp Phe Gly Tyr Glu Val Asp Gly Tyr Val Tyr Asn Ser Ala Asp Glu	
175 180 185	
cct aag ata ctg atg act gga aaa tgg aat gag gct atg aat tat caa	629
Pro Lys Ile Leu Met Thr Gly Lys Trp Asn Glu Ala Met Asn Tyr Gln	
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Val Cys Asp Ser Glu Gly Glu Pro Leu Pro Gly Thr Glu Leu Lys Glu	
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att tgg aga gtt gct gat acc ccg aag aag gac aag ttc cag tac acg	725
Ile Trp Arg Val Ala Asp Thr Pro Lys Lys Asp Lys Phe Gln Tyr Thr	
220 225 230	
cat ttt gca cac aag att aac agc ttt gac act gct ccc aag aag ttg	773
His Phe Ala His Lys Ile Asn Ser Phe Asp Thr Ala Pro Lys Lys Leu	
235 240 245 250	
ttg gca tct gac tct cgt cta cgt cct gat aga atg gcc ctt gag aag	821
Leu Ala Ser Asp Ser Arg Leu Arg Pro Asp Arg Met Ala Leu Glu Lys	
255 260 265	
ggt gac cta tcc aca tct ggt tat gag aag agc agt ttg gag gag agg	869
Gly Asp Leu Ser Thr Ser Gly Tyr Glu Lys Ser Ser Leu Glu Glu Arg	
270 275 280	
caa aga gct gag aag aga aac cga gag gcc aag ggc cat aag ttc act	917
Gln Arg Ala Glu Lys Arg Asn Arg Glu Ala Lys Gly His Lys Phe Thr	
285 290 295	
cct aga tgg ttt gat tta aca gat gaa gta act cct acc cct tgg ggt	965
Pro Arg Trp Phe Asp Leu Thr Asp Glu Val Thr Pro Thr Pro Trp Gly	
300 305 310	
gac ttg gaa gtt tac caa tac aac ggt aaa tat acc caa cat tgt gct	1013
Asp Leu Glu Val Tyr Gln Tyr Asn Gly Lys Tyr Thr Gln His Cys Ala	

315	320	325	330	
gcc gtt gat agt tct gag tgc att gaa gtg cct gac atc aga cca gaa				1061
Ala Val Asp Ser Ser Glu Cys Ile Glu Val Pro Asp Ile Arg Pro Glu				
	335	340	345	
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Phe Asn Pro Trp Gln Tyr Asp Asn Leu Asp Ala Glu				
	350	355		
tgtggaattc tttctatattt ttttaaatat cattttgtta ttaagtttgt aatgtaatct				1170
tgattggaat gcttgaaatt tggttttgtt tttgggttgt tttatcactg tagtatttga				1230
ttaattaata gtagctatgt tagttcatca gttcactttg catggataaa tgctagtagg				1290
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Met Cys Asn Asn Gly Gln Ser Pro Leu Asp Arg Phe Ile	
1 5 10	
tct gtg gta gca tgg tgc ata tct acc act cgc cct gtg act ttt ggt	159
Ser Val Val Ala Trp Cys Ile Ser Thr Thr Arg Pro Val Thr Phe Gly	
15 20 25	
gtt gct cct tat aat ccc att ctt ggt gag aca cac cat gtt tca agg	207
Val Ala Pro Tyr Asn Pro Ile Leu Gly Glu Thr His His Val Ser Arg	
30 35 40 45	
gga aat ctt aat gtg tta ttg gag cag att tca cat cac cct cca gta	255
Gly Asn Leu Asn Val Leu Leu Glu Gln Ile Ser His His Pro Pro Val	
50 55 60	
act gct ctc cat gca aca gat gag aag gaa aac att gaa atg tta tgg	303
Thr Ala Leu His Ala Thr Asp Glu Lys Glu Asn Ile Glu Met Leu Trp	
65 70 75	

tgc cag cga cct gat cca aag ttt aat ggc aca tca gtt gaa gct aaa	351
Cys Gln Arg Pro Asp Pro Lys Phe Asn Gly Thr Ser Val Glu Ala Lys	
80 85 90	
gtg cat gga ata cgc cag ttg aag ctc cta aat cat ggt gaa aca tat	399
Val His Gly Ile Arg Gln Leu Lys Leu Leu Asn His Gly Glu Thr Tyr	
95 100 105	
gaa atg aat tgt cct cgc ctt tta ctt aga att ctt cca gtt cct ggt	447
Glu Met Asn Cys Pro Arg Leu Leu Leu Arg Ile Leu Pro Val Pro Gly	
110 115 120 125	
gct gat tgg gct ggt aca gtt aat ata cgg tgc cta gag aca ggt cta	495
Ala Asp Trp Ala Gly Thr Val Asn Ile Arg Cys Leu Glu Thr Gly Leu	
130 135 140	
gta gct gaa tta tcc tac aga tca agt tct ttt cta gga att ggg ggg	543
Val Ala Glu Leu Ser Tyr Arg Ser Ser Ser Phe Leu Gly Ile Gly Gly	
145 150 155	
aat cat aga gtg atc aaa ggg aag atc ctt gac tct tca tca ttg aaa	591
Asn His Arg Val Ile Lys Gly Lys Ile Leu Asp Ser Ser Ser Leu Lys	
160 165 170	
gtt cta tat gaa gtt gat ggt cat tgg gat agg acc gta aaa gtg aag	639
Val Leu Tyr Glu Val Asp Gly His Trp Asp Arg Thr Val Lys Val Lys	
175 180 185	
gac aca aat aat ggg aaa gta aga gtg ata tat gat gca aag gaa gtt	687
Asp Thr Asn Asn Gly Lys Val Arg Val Ile Tyr Asp Ala Lys Glu Val	
190 195 200 205	
atg tca ggt ctc gaa act cct ata ctc aag gac ata gag ggt gtg tgg	735
Met Ser Gly Leu Glu Thr Pro Ile Leu Lys Asp Ile Glu Gly Val Trp	
210 215 220	
caa aca gaa tca gct cat gtt tgg ggt gaa tta aac caa gcc att gtg	783
Gln Thr Glu Ser Ala His Val Trp Gly Glu Leu Asn Gln Ala Ile Val	
225 230 235	
agc aaa gac tgg gag aaa gca aga gaa gca aag cta aaa gtt gag gaa	831
Ser Lys Asp Trp Glu Lys Ala Arg Glu Ala Lys Leu Lys Val Glu Glu	
240 245 250	
aga caa agg gag ctt gtg aga gaa aga gaa tca aaa gga gaa aca tgg	879
Arg Gln Arg Glu Leu Val Arg Glu Arg Glu Ser Lys Gly Glu Thr Trp	
255 260 265	
att tct aag cat ttt gta gtt tct aac aac aaa gaa ggg tgg caa tgt	927
Ile Ser Lys His Phe Val Val Ser Asn Asn Lys Glu Gly Trp Gln Cys	
270 275 280 285	
tca cct att cat aag agt gta cct gcg gcc ccc atc aca gcc cta taa	975
Ser Pro Ile His Lys Ser Val Pro Ala Ala Pro Ile Thr Ala Leu	

290

295

300

ttgttgtcac tgtcaagtag tgtaaagcat taaagtacat tttagaagag aatgttcata 1035
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tct tac ctg tta gat atg gcg gac aag act gag gat cca tac atg aga 100
 Ser Tyr Leu Leu Asp Met Ala Asp Lys Thr Glu Asp Pro Tyr Met Arg
 10 15 20

cta gta tat gct tca tca ttc ttt ata tct gtc tac tat gcc tat caa 148
 Leu Val Tyr Ala Ser Ser Phe Phe Ile Ser Val Tyr Tyr Ala Tyr Gln
 25 30 35

cga acg tgg aag cca ttc aat cca att ctt ggt gag act tat gaa atg 196
 Arg Thr Trp Lys Pro Phe Asn Pro Ile Leu Gly Glu Thr Tyr Glu Met
 40 45 50 55

gtt aac cat ggt ggc att aca ttt ata tca gag cag gtc agt cat cac 244
 Val Asn His Gly Gly Ile Thr Phe Ile Ser Glu Gln Val Ser His His
 60 65 70

cct cca atg agt gct ggg cat gct gaa act gaa cat ttc act tat gat 292
 Pro Pro Met Ser Ala Gly His Ala Glu Thr Glu His Phe Thr Tyr Asp
 75 80 85

gtt aca tca aaa ttg aaa acc aaa ttt ctc ggc aac tca gtt gat gta 340
 Val Thr Ser Lys Leu Lys Thr Lys Phe Leu Gly Asn Ser Val Asp Val
 90 95 100

tat cct gtt gga aga acg cgt gtt acc ctc aaa aga gat ggt gtg gtc 388
 Tyr Pro Val Gly Arg Thr Arg Val Thr Leu Lys Arg Asp Gly Val Val
 105 110 115

ctt gat ttg gtg cct cct cct aca aaa gtt agc aac ttg att ttt gga 436
 Leu Asp Leu Val Pro Pro Pro Thr Lys Val Ser Asn Leu Ile Phe Gly

120	125	130	135	
cga act tgg att gat tca cca gga gag atg atc ctg aca aat ctg act				484
Arg Thr Trp Ile Asp Ser Pro Gly Glu Met Ile Leu Thr Asn Leu Thr				
	140	145	150	
aca ggg gac aaa gtg gtg ctg tat ttt caa cca tgt ggc tgg ttt gga				532
Thr Gly Asp Lys Val Val Leu Tyr Phe Gln Pro Cys Gly Trp Phe Gly				
	155	160	165	
gct ggt aga tat gaa gtg gat ggg tac gtg tat aat tct gct gac gag				580
Ala Gly Arg Tyr Glu Val Asp Gly Tyr Val Tyr Asn Ser Ala Asp Glu				
	170	175	180	
cct aag ata ctg atg act gga aaa tgg aat gag gct atg aat tat caa				628
Pro Lys Ile Leu Met Thr Gly Lys Trp Asn Glu Ala Met Asn Tyr Gln				
	185	190	195	
gtt tgt gac tca gag gga gaa cca ctt cca ggc act gag ttg aaa gag				676
Val Cys Asp Ser Glu Gly Glu Pro Leu Pro Gly Thr Glu Leu Lys Glu				
	200	205	210	215
att tgg aga gtt gct gat acc ccg aag aag gac aag ttc cag tac acg				724
Ile Trp Arg Val Ala Asp Thr Pro Lys Lys Asp Lys Phe Gln Tyr Thr				
	220	225	230	
cat ttt gca cac aag att aac agc ttt gac act gct ccc aag aag ttg				772
His Phe Ala His Lys Ile Asn Ser Phe Asp Thr Ala Pro Lys Lys Leu				
	235	240	245	
ttg gca tct gac tct cgt cta cgt cct gat aga atg gcc ctt gag aag				820
Leu Ala Ser Asp Ser Arg Leu Arg Pro Asp Arg Met Ala Leu Glu Lys				
	250	255	260	
ggg gac cta tcc aca tct ggt tat gag aag agc agt ttg gag gag agg				868
Gly Asp Leu Ser Thr Ser Gly Tyr Glu Lys Ser Ser Leu Glu Glu Arg				
	265	270	275	
caa aga gct gag aag aga aac cga gag gcc aag ggc cat aag ttc act				916
Gln Arg Ala Glu Lys Arg Asn Arg Glu Ala Lys Gly His Lys Phe Thr				
	280	285	290	295
cct aga tgg ttt gat tta aca gat gaa gta act cct acc cct tgg ggt				964
Pro Arg Trp Phe Asp Leu Thr Asp Glu Val Thr Pro Thr Pro Trp Gly				
	300	305	310	
gac ttg gaa gtt tac caa tac aac ggt aaa tat acc caa cat tgt gct				1012
Asp Leu Glu Val Tyr Gln Tyr Asn Gly Lys Tyr Thr Gln His Cys Ala				
	315	320	325	
gcc gtt gat agt tct gag tgc att gaa gtg cct gac atc aga cca gaa				1060
Ala Val Asp Ser Ser Glu Cys Ile Glu Val Pro Asp Ile Arg Pro Glu				
	330	335	340	

ttc aac cct tgg caa tat gat aat ttg gat gct gaa tag tgagcatcct 1109
Phe Asn Pro Trp Gln Tyr Asp Asn Leu Asp Ala Glu
345 350 355

tgtggaattc tttctatctt tttgaaatat cattttgtta ttaagtttgt aatgtaatct 1169

tgattggaat gcttgaaatt tggttttgtt tttgggttgt tttatcactg tagtatttga 1229

ttaattaata gtagctatgt tagttcatca gttcactttg catggataaa tgctagtaga 1289

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ccgccg 1355

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Ser Trp Ser Ser Phe Leu Lys Ser Ile Ala Ser Phe Asn Gly Asp Leu
20 25 30

tcc tct ctc acc gca ccg ccg ttc atc ctc tca aca acc tct tta acc 144
Ser Ser Leu Thr Ala Pro Pro Phe Ile Leu Ser Thr Thr Ser Leu Thr
35 40 45

gag tat tct gcg tac tgg tgc gaa cat cct gca ctc ttc gtt gcc ccc 192
Glu Tyr Ser Ala Tyr Trp Cys Glu His Pro Ala Leu Phe Val Ala Pro
50 55 60

gca cgt gag ccc gat cct gcg aag aga gcg ctc ttg gtg ctg aaa tgg 240
Ala Arg Glu Pro Asp Pro Ala Lys Arg Ala Leu Leu Val Leu Lys Trp
65 70 75 80

ttc ctg agc aca ttg cac caa cag tac tgc tct cga agc gaa aag cta 288
Phe Leu Ser Thr Leu His Gln Gln Tyr Cys Ser Arg Ser Glu Lys Leu
85 90 95

gga agc gag aaa aag ccg ctc aac ccg ttc ctg ggc gag ctt ttc ctg 336
Gly Ser Glu Lys Lys Pro Leu Asn Pro Phe Leu Gly Glu Leu Phe Leu
100 105 110

ggc aag tgg ata gag gat gag gat gtg ggc gag aca agg ttg atc agc	384
Gly Lys Trp Ile Glu Asp Glu Asp Val Gly Glu Thr Arg Leu Ile Ser	
115 120 125	
gag caa gtc agc cat cat cct cct gcg aca gcg tat tca ata gtc aat	432
Glu Gln Val Ser His His Pro Pro Ala Thr Ala Tyr Ser Ile Val Asn	
130 135 140	
gag aaa cat gga gtt gag ctc caa gga tac aac gcc caa aaa gcc tcc	480
Glu Lys His Gly Val Glu Leu Gln Gly Tyr Asn Ala Gln Lys Ala Ser	
145 150 155 160	
ttc tcc agc acc atc caa gtg aaa caa cta ggc cac gcc tat ctc tcc	528
Phe Ser Ser Thr Ile Gln Val Lys Gln Leu Gly His Ala Tyr Leu Ser	
165 170 175	
tta acg ccg ccc gga aaa gat gca aac aac gaa gac gac cgt gag cac	576
Leu Thr Pro Pro Gly Lys Asp Ala Asn Asn Glu Asp Asp Arg Glu His	
180 185 190	
tac ctc atc acc ctc ccc aac ctc cac atc gaa tcc ctg atc tat ggg	624
Tyr Leu Ile Thr Leu Pro Asn Leu His Ile Glu Ser Leu Ile Tyr Gly	
195 200 205	
aca cca ttc gtt gaa ttg gaa aag agt tgc aag atc gcc agc tca acc	672
Thr Pro Phe Val Glu Leu Glu Lys Ser Cys Lys Ile Ala Ser Ser Thr	
210 215 220	
ggg tac atc tct aag ata gac ttt tcg ggc aaa ggc tgg ctg agc gga	720
Gly Tyr Ile Ser Lys Ile Asp Phe Ser Gly Lys Gly Trp Leu Ser Gly	
225 230 235 240	
aag aaa aat acc ttc tcc gca gtg tta tac aag gaa agc gac ggc gaa	768
Lys Lys Asn Thr Phe Ser Ala Val Leu Tyr Lys Glu Ser Asp Gly Glu	
245 250 255	
aaa aat cct tta tac aca gcc gac ggt caa tgg tcg agc agc ttc act	816
Lys Asn Pro Leu Tyr Thr Ala Asp Gly Gln Trp Ser Ser Ser Phe Thr	
260 265 270	
atc cgc gat gca cgc gct aag aag gat att gag acc ttc act atc agc	864
Ile Arg Asp Ala Arg Ala Lys Lys Asp Ile Glu Thr Phe Thr Ile Ser	
275 280 285	
aat ctg aaa aca acc ccc tta aca gtc gcc cct ctt gat gaa caa gat	912
Asn Leu Lys Thr Thr Pro Leu Thr Val Ala Pro Leu Asp Glu Gln Asp	
290 295 300	
gaa tgg gaa act cgc cgt gca tgg cgc gac gta gca gcc gcc atc gaa	960
Glu Trp Glu Thr Arg Arg Ala Trp Arg Asp Val Ala Ala Ala Ile Glu	
305 310 315 320	
cgc ggc gac atg gaa gcc aca tca aac gcc aaa acc aag atc gaa gtc	1008
Arg Gly Asp Met Glu Ala Thr Ser Asn Ala Lys Thr Lys Ile Glu Val	

325	330	335	
gcg caa cga gaa ctc cgc aaa aag gag aaa gag caa ggc gag gag tgg			1056
Ala Gln Arg Glu Leu Arg Lys Lys Glu Lys Glu Gln Gly Glu Glu Trp			
340	345	350	
gaa cga cga ttc ttc aag cga gtc aac gaa aag gat gaa cct acc ttt			1104
Glu Arg Arg Phe Phe Lys Arg Val Asn Glu Lys Asp Glu Pro Thr Phe			
355	360	365	
atg aga ttg gcg gcg atg ctg gat ttg acg caa ggc atc gaa agt gac			1152
Met Arg Leu Ala Ala Met Leu Asp Leu Thr Gln Gly Ile Glu Ser Asp			
370	375	380	
cgc acc ggg gga gtt tgg agg ttt gat cct tca cgt gct gtg gat gcg			1200
Arg Thr Gly Gly Val Trp Arg Phe Asp Pro Ser Arg Ala Val Asp Ala			
385	390	395	400
aat ccg ccg tat cac aag gtt ggc ggc gaa ggg ttg gga ttg taa			1245
Asn Pro Pro Tyr His Lys Val Gly Gly Glu Gly Leu Gly Leu			
405	410		
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aatgtgtatt aagtagcgct ttttctcgac cgttgagatt catggatgca agtgtaccta			1365
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acgacctttc agcctcacct gcagtatttc ttcaacaacg cctgtcgcta tgttaaataa			180
tagaaatcgt ttgtgatcac cattgtcgaa tttgacgcgc ttaaacaaaa accattgttt			240
tggcctcggt ccttgcattc aacaaaagag caaggtatgc cgtcaaacag tcgttaaaag			300
agaaggttta taaactatct tgttttgtac tttgctgtcc cggatccagt tgggtcttct			360
tttcaacctg tctgagtcg atctttcttt cctacttga agctccatat atctaagtca			420

tctaagtgtgta tcttgctaga ttacaaacga aa	atg tct caa cac gca agc tca	473
	Met Ser Gln His Ala Ser Ser	
	1 5	
tct tct tgg act tct ttt ttg aaa tcg ata agt tcg ttc aac gga gat	521	
Ser Ser Trp Thr Ser Phe Leu Lys Ser Ile Ser Ser Phe Asn Gly Asp		
10 15 20		
cta tcg tct ttg tct gca cca ccg ttt att ctt tct ccc act tcc tta	569	
Leu Ser Ser Leu Ser Ala Pro Pro Phe Ile Leu Ser Pro Thr Ser Leu		
25 30 35		
aca gag ttt tct cag tat tgg gct gaa cat cca gct tta ttt ctg gag	617	
Thr Glu Phe Ser Gln Tyr Trp Ala Glu His Pro Ala Leu Phe Leu Glu		
40 45 50 55		
cct tcg ttg att gat ggt gaa aac tac aaa gat cac tgt ccc ttt gac	665	
Pro Ser Leu Ile Asp Gly Glu Asn Tyr Lys Asp His Cys Pro Phe Asp		
60 65 70		
cca aat gtg gaa tca aag gaa gtg gcg cag atg ttg gcg gtt gtt agg	713	
Pro Asn Val Glu Ser Lys Glu Val Ala Gln Met Leu Ala Val Val Arg		
75 80 85		
tgg ttt att tct act ttg aga tct caa tac tgc tct aga agc gaa tcg	761	
Trp Phe Ile Ser Thr Leu Arg Ser Gln Tyr Cys Ser Arg Ser Glu Ser		
90 95 100		
atg ggt tct gaa aag aag cct ttg aac cca ttc ttg ggt gag gta ttt	809	
Met Gly Ser Glu Lys Lys Pro Leu Asn Pro Phe Leu Gly Glu Val Phe		
105 110 115		
gtt gga aag tgg aaa aat gat gag cat cca gag ttt ggt gaa acg gtt	857	
Val Gly Lys Trp Lys Asn Asp Glu His Pro Glu Phe Gly Glu Thr Val		
120 125 130 135		
ctt tta agt gag caa gtt tca cat cat cca cct atg aca gca ttt tcg	905	
Leu Leu Ser Glu Gln Val Ser His His Pro Pro Met Thr Ala Phe Ser		
140 145 150		
att ttt aat gaa aaa aat gat gtt tct gtt caa gga tac aat caa att	953	
Ile Phe Asn Glu Lys Asn Asp Val Ser Val Gln Gly Tyr Asn Gln Ile		
155 160 165		
aaa act ggt ttt acc aaa aca ttg acg cta acg gtc aaa cca tac ggg	1001	
Lys Thr Gly Phe Thr Lys Thr Leu Thr Leu Thr Val Lys Pro Tyr Gly		
170 175 180		
cat gtc att ttg aag att aaa gat gag acc tac ctg att aca acc ccg	1049	
His Val Ile Leu Lys Ile Lys Asp Glu Thr Tyr Leu Ile Thr Thr Pro		
185 190 195		
cct ttg cat atc gaa ggt att tta gtc gct tct cca ttt gtt gaa tta	1097	
Pro Leu His Ile Glu Gly Ile Leu Val Ala Ser Pro Phe Val Glu Leu		

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gga ggc agg tca ttc ata cag tca tca aat ggt atg tta tgt gtt ata				1145
Gly Gly Arg Ser Phe Ile Gln Ser Ser Asn Gly Met Leu Cys Val Ile				
220		225	230	
gaa ttt tca gga agg ggg tat ttc aca ggg aag aag aac tcc ttt aag				1193
Glu Phe Ser Gly Arg Gly Tyr Phe Thr Gly Lys Lys Asn Ser Phe Lys				
235		240	245	
gca aga att tac aga agc cca caa gag cat agt cat aaa gaa aat gcg				1241
Ala Arg Ile Tyr Arg Ser Pro Gln Glu His Ser His Lys Glu Asn Ala				
250		255	260	
cta tac cta atc tct ggc caa tgg tca ggt gtt tca aca att ata aaa				1289
Leu Tyr Leu Ile Ser Gly Gln Trp Ser Gly Val Ser Thr Ile Ile Lys				
265		270	275	
aaa gac tcg caa gtt tca cat cag ttt tac gat tca tcg gaa act cct				1337
Lys Asp Ser Gln Val Ser His Gln Phe Tyr Asp Ser Ser Glu Thr Pro				
280		285	290	295
act gaa cat tta tta gtt aag cca atc gaa gaa caa cat cct ctg gaa				1385
Thr Glu His Leu Leu Val Lys Pro Ile Glu Glu Gln His Pro Leu Glu				
300		305	310	
agt agg agg gca tgg aag gat gtg gca gaa gca atc aga caa gga aat				1433
Ser Arg Arg Ala Trp Lys Asp Val Ala Glu Ala Ile Arg Gln Gly Asn				
315		320	325	
att agt atg ata aaa aag act aag gaa gaa cta gaa aat aag caa aga				1481
Ile Ser Met Ile Lys Lys Thr Lys Glu Glu Leu Glu Asn Lys Gln Arg				
330		335	340	
gcc ttg aga gaa caa gaa cgc gta aaa ggt gtg gaa tgg caa aga aga				1529
Ala Leu Arg Glu Gln Glu Arg Val Lys Gly Val Glu Trp Gln Arg Arg				
345		350	355	
tgg ttc aaa caa gtg gac tac atg aat gaa aat aca tca aat gat gta				1577
Trp Phe Lys Gln Val Asp Tyr Met Asn Glu Asn Thr Ser Asn Asp Val				
360		365	370	375
gag aaa gca agt gaa gat gat gcc ttt agg aaa ttg gcg tcc aaa ctg				1625
Glu Lys Ala Ser Glu Asp Asp Ala Phe Arg Lys Leu Ala Ser Lys Leu				
380		385	390	
cag ctt tct gtg aaa aat gtg cca agt ggg aca ttg att ggc ggc aaa				1673
Gln Leu Ser Val Lys Asn Val Pro Ser Gly Thr Leu Ile Gly Gly Lys				
395		400	405	
gat gat aag aaa gat gtt tca acc gca ttg cat tgg agg ttt gat aaa				1721
Asp Asp Lys Lys Asp Val Ser Thr Ala Leu His Trp Arg Phe Asp Lys				
410		415	420	

aat ttg tgg atg agg gag aac gaa att act ata taa tataaatgtt 1767
 Asn Leu Trp Met Arg Glu Asn Glu Ile Thr Ile
 425 430

tttaaaagaa taaatatcaa aaattaatac taattgatgt ttgcattgct ttttttaagg 1827
 gaaaatgcaa gcgtttttat ttttaacttt tggttttgaa gctcgtaatt caacaaaaaa 1887
 gaattaaata atcttcaagt ccgataacaa gatgtagaaa aaacatccca atgaagttac 1947
 aagtcaaacc attcactgag aatttttgta actcaccacc gatttttttg ataaaaatgta 2007
 ttcttgcaac tttttttttt gaagagataa aaagaattga atagaatatg cagtaaaaaa 2067
 agaatctcga aaaaaaaagg acaagaaatc ttaactacca tcaaacaatt gaaaattga 2126

<210> 6
 <211> 266
 <212> DNA
 <213> Glycine max

<400> 6

ccattcaatc caattcttgg tgagacttat gaaatgggta accatgggtg cattacattt 60
 atatcagagc aggtcagtc taccctcca atgagtgtg ggcagtgtga aactgaacat 120
 ttcacttatg atgttacatc aaaattgaaa accaaatttc tcggcaactc agttgatgta 180
 tatectgttg gaagaacgcg tgttaccctc aaaagagatg gtgtgggcct tgatttggtg 240
 cctctccta caaaagttag caactt 266

<210> 7
 <211> 291
 <212> DNA
 <213> Glycine max

<220>
 <223> unsure at all n locations

<400> 7

tcacaacttc agtgctatgg tgaatcagtg tattgcacag gttcggactt gctaagcatg 60
 tgcaacaatg gtcagagtcc acttgatagg ttcatatctg tggtagcatg gtgcatatct 120
 accactcgcc ctgtgacttt tgggtgtgct ccttataatc ccantcttgg tgagacacac 180
 cncgtttcaa ggggaaatct taatgtgtta ttggagcaga tttcacatca cctccagta 240
 actgctctcc atgcaacaga tgaganggaa aacattgaaa tgttatgggtg c 291

<210> 8
 <211> 282
 <212> DNA
 <213> Glycine max

<220>
 <223> unsure at all n locations

<400> 8

gtgcccagng acaggtctgg tagctgaaat atcatacatg atcaagccat tgctttttta 60
 ggaatttnggg gaagtcgtaa attgatcaaa gggnaaatcc ttgactcatn attactcaaa 120
 ggtctctgcg aagttgatng tcattgggat aagatagtta gagtgaagga tacnaatagt 180
 gnagaagtga gagtgatata tgatgccaaa gaagcctttt caggtctcaa aactcctatt 240
 atcaaggatg tggagagtgt gtggccaacc gaatcagccc tt 282

<210> 9
 <211> 255
 <212> DNA
 <213> Glycine max

<400> 9

gtaactccta ccccttgggg tgacttgga gtttaccaat acaacggtaa atatacccaa 60
 cattgtgctg ccgttgatag ttctgagtgc attgaagtgc ctgacatcag accagaattc 120
 aacccttggc aatatgataa tttggatgct gaatagttag catccttgtg gaattctttc 180
 tatttttttt aaatatcatt ttgttattaa gtttgtaatg taatcttgat tggaagcttg 240
 aaatttggtt ttgtt 255

<210> 10
 <211> 250
 <212> DNA
 <213> Glycine max

<400> 10

taactcctac cccttggggg gacttgaag tttaccaata caacggtaaa tatacccaac 60
 attgtgctgc cggttgatag tctgagtgc ttgaagtgcc tgacatcaga ccagaattca 120
 acccttggca atatgataa ttggatgctg aatagtgagc atccttgtgg aattctttct 180

atttttttta aatatcattt tgttattaag ttgtaatgt aatcttgatt ggaatgcttg 240
aaatttggtt 250

<210> 11
<211> 283
<212> DNA
<213> Glycine max

<220>
<223> unsure at all n locations

<400> 11

cgctgtgnt taatttccca aaatctcaac ttcaatgcta nggtgaatca gtgtactgca 60
catcttccaa cttgctaagc caatgcaaac agtgggcaga gtccactgga caggttcaca 120
tcagtagtag catggagcat atctaccaca cgccccacat cttttggtgt tgctccttat 180
aattccactc ttggagagac ccaccatggt tccaagggca atctcaacgt cctagttgag 240
caggtttcac tcaatcctcc agtatctgcc ctccatgcaa cag 283

<210> 12
<211> 255
<212> DNA
<213> Glycine max

<400> 12

ggagagtgtg tggccaaccg aatcagccct tgtttgaggt gagttgagcc aagccattat 60
gaacaaagat tgggaaagag caagagaagc aaagcaagac gtggaagaaa gacagaggaa 120
tatgttgaga gacagagcca tgaaaggaga aacttggttt cctaagaatt ttaggggtgtc 180
ttacagtaaa gacacatggg aatgggactg ttcaccaact cataaatggg tccctgaggc 240
cccatcata gctca 255

<210> 13
<211> 259
<212> DNA
<213> Glycine max

<220>
<223> unsure at all n locations

<400> 13

agtcaaccct ccagtatctg ccctccatgc aacagatgag anggaaaaca ttgagatgat 60
 atgggtccag caacctgttc caaagtttcg gggtagatct atgaagctca agtgcattgg 120
 aaacgtcata tgtttctcca tgatttagga gcttcagctg acgtttacca tgcacttgag 180
 ctgangctcc taaatcatgg agaaacatat gaaatgaatt gtcctcacct ttcaattaga 240
 attcttccgg ttcttgga 259

<210> 14
 <211> 355
 <212> DNA
 <213> Glycine max

<220>
 <223> unsure at all n locations

<400> 14

gcagcttttg ctgtgtctag ctatgcgtca actgaangtc gacaatgtaa acctttta 60
 cctttactcg gggagacctt cgaagctgac tatccagata aaggacttaa gtttttttct 120
 gaaaagggtta gtcattcatc aatgattggt gcttgtcact gtgagggaag gggatggaag 180
 ttttgggcag attctaattt gaaaggaaaa ttctgggggc gttctatcca gttagatcct 240
 gtgggtgtcc tcaactctaca gtttgaggat ggtgaaacat ttcagtggag caaggctacc 300
 acttcgattt acaatatcat actangtaaa atttattgtg accactacgg tacca 355

<210> 15
 <211> 279
 <212> DNA
 <213> Glycine max

<220>
 <223> unsure at all n locations

<400> 15

cagattcgga ggaggaagct cagagaggaa gatggaaaca ggaggaaaga gatggttact 60
 ggaagatgat gcagaagtat attggctcgg atgtaacatc aatgggtgaca ctaccagtta 120
 ttatatattga accaatgact atgattcaga aaattgctga gttgatggag tactcctact 180
 tgtagatca agcagatgaa tcagaggatc catacatgca gttagtttat gcaatggatg 240
 tacttnatgt atcatcacag catccatggg ccatatcgg 279

<210> 16
 <211> 191
 <212> DNA
 <213> Glycine max

<400> 16

gttgatagtt ctgagtgcac agaggtgcct gacagcagaa cagaattcaa cccttggcaa 60
 tatgataatt tggatgctga ataataagca tccttgtaga attctttcta ttctttgaac 120
 tatcattttg ttattaagtt tgcaatgtat ctgattggaa tgcttgaaat ttgggtttgt 180
 ttttgggtaa a 191

<210> 17
 <211> 267
 <212> DNA
 <213> Glycine max

<220>
 <223> unsure at all n locations

<400> 17

tcaactcctt ggggtgattt ggaaatctat caatataatg gtaaatacag tgaacatcga 60
 gctgctgcag ataactcagg aagcattgat gatgttgatg ctaaataaat tgaattcaat 120
 ccattggcagt atggtaattt ggccacggaa tgaactagtt tcaatttctt tgggttttga 180
 tgnntncagtt agttcatgta actnttnnch antganacna gaanacaact ncctncnnca 240
 nennanngtt agttgggcng tgtacgc 267

<210> 18
 <211> 252
 <212> DNA
 <213> Glycine max

<400> 18

gtcttataga gctcccaatc tctacatcg cttgttaagt ttactcaaga acgtgcggcc 60
 aggatcagat ctcacacact tccaactgcc agctgtgttt aacttcccaa aatctcaact 120
 tcaatgctat ggtgaatcag tgtactgcac atcttcaaac ttgctgagca aatgcaacaa 180
 tgggcagagt ccactggaca ggttcacatc agtagtagca tggagcatat ctaccacacg 240
 cccacatct tt 252

<210> 19
 <211> 241
 <212> DNA
 <213> Glycine max

<400> 19

gtcagtcac accctccaat gagtgctggg catgctgaaa ctgaacattt cacttatgat 60
 gttacatcaa aattgaaaac caaattttctc ggcaactcag ttgatgtata tcctgttgga 120
 agaacgcgtg ttacctcaa aagagatggg gtgggtccttg atttgggtgcc tcctcctaca 180
 aaagttagca acttgatttt tggacgaact tggattgatt caccaggaga gatgatcctg 240
 a 241

<210> 20
 <211> 262
 <212> DNA
 <213> Glycine max

<400> 20

tctcgagcct attcggctcg aggccaaaga agccatttca ggtcactaaa ctctattat 60
 catatgatgt ggagagtgtg tattcaaccg aatcagccct tgtttgaggt gagttgagcc 120
 aagccattat gaacaaagat tgggaaagag caagagaagc aaagcaagac gtggaagaaa 180
 gacagaggaa tatgttgaga gacagagcca tgacaggaga aactgggtgt ctaagaattt 240
 aggggtgtctt acagtaaaga ca 262

<210> 21
 <211> 463
 <212> DNA
 <213> Arabidopsis thaliana

<220>
 <223> unsure at all n locations

<400> 21

ggggaacccc ttccaggaac agagctgaaa gaggtgtggc atttggctga tgtccccaaa 60
 aacgacaact ttcagtacac tcactttgct cacaagataa acagcttcga cacagcgcct 120
 gctaagctct tggtttcaga ctacgtatc cgtcttgata gatattccct tgagcagggt 180

gaccttttcta aagctgggttc cgagaaacac agccttgagg agagacaaaag ggccgaaaag 240
aggaccagag agacaaaggg acaaaagttc actccaagat ggttcgatct aacggatgag 300
atcacaccta ctccatgggg agatattgaa gtataccant acaacgggaa gtacaatgaa 360
caccgagaca cggcagagag ctcaagtagt gctccaacg aaacgggact caaatccatc 420
gagtttaate cttggcaata tggtaatatc tcaaccgaat gaa 463

<210> 22
<211> 399
<212> DNA
<213> Arabidopsis thaliana

<400> 22

agtgaacctc tcccaggcac cgaactgaaa gaggtatgga aactcgctga tgtgccaaag 60
gatgacaaat atcaatacac tcactttgct cacaagatta atagcttcga cactgccccg 120
aaaaagctgt tgccctctga ttcacggtta cgacctgata gatacgact tgagatgggc 180
gacatgtcca aatcaggcta tgagaagagc agcatggaag agagacagag agctgacaag 240
agaacccgcg aacataaagg ccaagccttt actccaaaat ggttcgatgt aacggaagaa 300
gtcactgcta caccatgggg tgatctggaa gtttaccaat tcactggaaa gtactcagaa 360
catcgtgcag ctgcggataa ctctgaagat aagaccgac 399

<210> 23
<211> 343
<212> DNA
<213> Arabidopsis thaliana

<400> 23

acggacgcgt gggcaactcc aatgttacgg cgagatggtc tacagcttcg tcggtcagga 60
tctgcttggg gaatgcagcc gccgtgatct tcccattgaa cggctcaaat cagtgggtgac 120
gtggaacatc tccacactcc gtccgggtggc ctttggcatg tctccgtaca actccgttct 180
cggcgagact caccacgtat cgaacgggtca catcaacgtc atcgccgaac aagtagtgca 240
tcatectcgc gtttccgctc ttcacgcgac tcacgaacaa gaaaatatcg acgtgacatg 300
gtgtcaatat ttcactccta aatttcgtgg tactcacgtg gac 343

<210> 24

<211> 510
 <212> DNA
 <213> Arabidopsis thaliana

<220>
 <223> unsure at all n locations

<400> 24

gaaagctagc agatgtagaa caaagttttt tgtaactacg agagaataag aatacatttg 60
 ttccaaaaa gatttgatct tttctgtctt ttggagcgat acatttaagt agacagatct 120
 tggaattgcc atgggttgaa ttggatcgac ttagggtcgg tggtatcttc agagttatcc 180
 gcagctgcac gatgttccga gtactttcca ttgaattggt aaacttccag atcaccccat 240
 ggtgtagcag tgacttcttc cgttacatcg aaccattttg gagtaaaggc ttggcctttc 300
 tcttcgctgg gtctcttttc aagtctctgt cctctttcca tgggtgntctt cccanagcct 360
 gatttgnaca tggcggccan cccaaggng gatcaatcag gccgnaacgg ggaatcagnn 420
 ggnaacagct tttcngggna ntgncgaagc aataaacnt gggggcaaag gggggggatt 480
 ggaaattggc aacccttggn naacaggggc 510

<210> 25
 <211> 282
 <212> DNA
 <213> Arabidopsis thaliana

<220>
 <223> unsure at all n locations

<400> 25

gatacatttg gattcgaaaa gagcagccta gaggatagac aaagagctga gaagaaaagc 60
 agagaagaga aaggccaaaa ntttcncca aaatggtttt atgaaacana agangtcact 120
 cctacaccat ggggtgatct cgaagtttac caattcantg gaaagtactc ggtgcaccgn 180
 gccacagctg aaaactntga ggatacaacc gntgtgaagt tgncccaatt caacccttgg 240
 caattccaag atctctntgc ttaatccttt ggtgccattt gt 282

<210> 26
 <211> 380
 <212> DNA
 <213> Arabidopsis thaliana

<220>

<223> unsure at all n locations

<400> 26

cggttggtggc ngcggaagtg gtttcttcgc ctctcttgct tcgtcgatct ccaatttngg 60
ntctgctatg accaaatcag ttaatggttt ggttccctat gagggacttg aagttatcaa 120
tcctgaagga agtacagatg atgctgagga ggaagcaagc agaggaagat ggaagcaaga 180
ggatcgagat ggctattgga agatgatgca gaagtacata ggatctgatg ttacatcaat 240
ggtgaccctt cctgtgatta tttttgaacc aatgacaatg cttcagaaaa tggcggagtt 300
gatggaatac tcgcatctgc tagacatggc agacaaaacc gaggaccctt atttncgcat 360
gggtgatgca tcatcgtggg 380

<210> 27

<211> 359

<212> DNA

<213> Arabidopsis thaliana

<220>

<223> unsure at all n locations

<400> 27

ggtaatgaag gagttgaggt cataaatcca gaaggtggca aggaagatnc tgaagaggaa 60
gctcagaaag gaaggtggaa ggacgaggaa cgagatagtt actggaagat gatgcagaaa 120
tatataggtt cggatattac gtcaatgggtg gctcttcctg ttgtnatatt tnancctatg 180
actatnctcc anaagatggc tgagataatg gagtattctc atttnttga tcaagcagat 240
gaatgengag atccatactt gctgttagta tatccttcat catgggggtat atctgtttac 300
tatggccttc caacggacct tggaagcctt tnaatccnat tcttgggggg gnnanttna 359

<210> 28

<211> 510

<212> DNA

<213> Arabidopsis thaliana

<220>

<223> unsure at all n locations

<400> 28

aaaagagaaa agtgttagcc ttggtcaat gatcaaagac antataggga aggntctcac 60

aaaagtctgt cttcctgttt acttcaacga gccactttct tctttacaga aatgttttga 120
 ggattttggaa tattcgtacc ttcttgaccg agcatttgaa tatggcaaaa ggggaaatag 180
 cctcatgagg atacttaatg tagctgcttt tgctgtatct gggatatgcac caactgaagg 240
 aagaatttgc aaacctttta atccattgtt aggtgaaaca tacgnggcag actatccaga 300
 caaaggcctt cggttttttt ccaggaaagg tcagtcacac tcctatgggt gtcgnatgcc 360
 attgtgatgg caccnggtgg gaattcttgg gggacagcaa tcttnggggc aaatttttgg 420
 gcgntctntt tagcttnacc cccttgggga ttnnccctna aattnatgat ggggaanccn 480
 caggggggaa gnggccacc atncaaacc 510

<210> 29
 <211> 493
 <212> DNA
 <213> *Arabidopsis thaliana*

<220>
 <223> unsure at all n locations

<400> 29

cccncccnng aaagnttccc ctgtttccgg nttnnccct ntgnncccc ttgggggggn 60
 cctttcccaa tnggnnttgg gngngcccc ttggangggg ccggggcttt aaagggccccc 120
 ncgnaggga ggcagcctt tctcccaaat ggtcgatgta ccggaggaag tcaactgctac 180
 cccatggggg gatctggaag tttcccaatt caatggaaag tactcggaac atcgtgcagc 240
 tgccgataac tctgaagata acaccgaccc taagtcgatc caattcaacc catggcaatt 300
 ccaagatctg tctacttaaa tgtatcgctc caaagacag aaaagatcaa atcttttttg 360
 aaacaaatgt attcttattc tctcgtagtt acaaaaaact ttgttctaca tctgctagct 420
 tccccattgc tttctctagt attagtgtac aacttctact gttttgtctt aaattcattc 480
 aaatctttct ttg 493

<210> 30
 <211> 1305
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 30

atgtctcaac acgcaagctc atcttcttgg acttcttttt tgaaatcgat aagttcgttc 60
 aacggagatc tatcgtcttt gtctgcacca cegtttattc tttctcccac ttccttaaca 120
 gagttttctc agtattgggc tgaacatcca gctttatttc tggagccttc gttgattgat 180
 ggtgaaaact acaaagatca ctgtcccttt gacccaaatg tggaatcaaa ggaagtggcg 240
 cagatgttgg cgggttgtag gtggtttatt tctactttga gatctcaata ctgctctaga 300
 agcgaatcga tgggttctga aaagaagcct ttgaacccat tcttgggtga ggtatttggt 360
 ggaaagtgga aaaatgatga gcatccagag tttggtgaaa cggttctttt aagtgaagcaa 420
 gtttcacatc atccacctat gacagcattt tcgattttta atgaaaaaaaa tgatgtttct 480
 gttcaaggat acaatcaa ataaaactggt ttaccacaaa cattgacgct aacggtcaaa 540
 ccatacgggc atgtcatttt gaagattaaa gatgagacct acctgattac aaccccgctt 600
 ttgcatatcg aagggtatttt agtcgcttct ccatttggtg aattaggagg caggtcattc 660
 atacagtcac caaatggtat gttatgtgtt atagaatttt caggaagggg gtatttcaca 720
 gggaagaaga actcctttta ggcaagaatt tacagaagcc cacaagagca tagtcataaa 780
 gaaaatgcgc tataccta atcttgccaa tggtcaggtg tttcaacaat tataaaaaaaaa 840
 gactcgcaag tttcacatca gttttacgat tcatcgaaa ctctactga acatttatta 900
 gttaagccaa tcgaagaaca acatcctctg gaaagtagga gggcatggaa ggatgtggca 960
 gaagcaatca gacaaggaaa tattagtatg ataaaaaaga ctaaggaaga actagaaaaat 1020
 aagcaaagag ccttgagaga acaagaacgc gtaaaagggtg tggaatggca aagaagatgg 1080
 ttcaaacaag tggactacat gaatgaaaat acatcaa atgtagagaa agcaagtga 1140
 gatgatgcct ttaggaaatt ggcgtccaaa ctgcagcttt ctgtgaaaaa tgtgccaaagt 1200
 gggacattga ttggcgccaa agatgataag aaagatgttt caaccgcatt gcattggagg 1260
 tttgataaaa atttgtggat gagggagaac gaaattacta tataa 1305

<210> 31
 <211> 1200
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 31

atgacagtct cacacaatca ttctacgaag atatcccaac aaccaatctc ctcggtatca 60

gcattttaagt tcttcggaaa gaagctgtta agttcaagcc atgggaacaa gttgaagaaa 120
aaggcgtctc tacctccaga cttccactct acaagtacta atgacagcga atcctccagc 180
ccaaaactgc cgaattcggt gaaaacctct cgcctgtcaa actctttcgc tcacacaacc 240
aacagcaaga gatctttatc ttccgcctca accaagatcc tacctccggc cggctccagc 300
acgtccatct caagaggaaa cagacattcg tccacttcgc gtaatctctc aaactccaag 360
ttcagtagcg aacgattagt gtacaatcca tacggcgtct caacccaag cacgtcactc 420
tcgtccgtct ctacctccat gaagaaagac cctgatctgg gcttctacct tcacgatggg 480
gattccaaaa tccgcatgct gccgatccca attgtggacc caaacgagta tctgcccagc 540
gagatgaagg agycaagcat ccagttgagc gataacttcg tctttgatga tgagaataag 600
accatcggat ggggcggttc gtgcgaagtg cgcaagatcc gctccaagta ccgcaagaag 660
gacgtatttg ctctaaagaa gctcaatatg atctataatg aaacgcccga gaaattctac 720
aacgtgctc caaaggagtt tatcatcgca aagcagctaa gtcatcatgt tcacatcaca 780
aatactttcc ttctagtcaa ggtgccacc accgtctaca ccactcgcgg gtggggggttc 840
gtcatggagc taggtctacg agatttggtc gcgatgatac aaaaatcggg ctggcgccac 900
gtggccctag cagaaaagtt ttgtatatc aaacaggtgg cgtgtggtgt caagttttgc 960
cacgatcagg gcacgcccac ccgtgatttg aaaccgaaa atgtactgct atccccggac 1020
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cctgtccagc cctgtcaaga agtgccgagg gatgatcggc tcgccgccgt atgctcccc 1140
ggaggtcatg ttctacgact ccaagaagca ctacgatacg gaattgcaac agccgtatga 1200

<210> 32
<211> 309
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 32

atggatcacc cacataagtg gcaccgtaag ctctgtaatt gcaacagcga ctttattttt 60
aagagccgcg gtcattttgt tagtatctct tctcaacttg ggcagcacia tttcacgata 120
tttaacaggt atcatttgaa aaaaagaatc gttttccaga tactcgtcaa ttctcgtctt 180
cggttctctg aacaaaactt ctcgattacg caaatgagg ctggcatatg gaagcagttg 240

ttcaactctc cccaaagttt tccacatact gatataccat cagaagaagg taccaaagtt 300
attctataa 309

<210> 33
<211> 4014
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 33

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 <213> *Saccharomyces cerevisiae*

<400> 34

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 <211> 303
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 35

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 ttaactcccc caagatttgt gaagatcatg aatagacgcc ctctgttcac agaaactagt 240
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<210> 36
 <211> 888
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 36

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<210> 37
 <211> 2121
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 37

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 <211> 3414
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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 <211> 336
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 39

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<210> 40
 <211> 882
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 40

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 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 44

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<210> 45
<211> 318
<212> DNA

<213> Saccharomyces cerevisiae

<400> 45

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attccaagtg ggacctga 318

<210> 46

<211> 309

<212> DNA

<213> Saccharomyces cerevisiae

<400> 46

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cccagcatca ttgatgttac atatactatg cacgtttttt atatgacgat aatacttatt 180
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gcagtatga 309

<210> 47

<211> 1110

<212> DNA

<213> Saccharomyces cerevisiae

<400> 47

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<210> 48
 <211> 1557
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 48

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 aaatggaaaa acatagttac aatcattgcy tccggttttg ctctgataag tgatgggttac 180
 gtaa atgggt caatgagtat gctaaacaag gtttttggtta tggagtacgg taagaaaaac 240
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<210> 49
 <211> 2706
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 49

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<210> 50
 <211> 942
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 50

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<210> 51
<211> 765
<212> DNA
<213> Saccharomyces cerevisiae

<400> 51

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atccaagcta ccaaggctgt ttctgagcaa actgaaaacg gtgctgctaa ggcctttgtt 720
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<210> 52
<211> 1407
<212> DNA
<213> Saccharomyces cerevisiae

<400> 52

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<210> 53
 <211> 1863
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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tga 1863

<210> 54
<211> 474
<212> DNA
<213> *Saccharomyces cerevisiae*

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aaatgtctcc tatcatgcag cgcaggctgt tctctctttt ctttctccct ttccttttgt 180
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<210> 55
<211> 897
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 55
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tacgtttctg atattggcgc ccatttatct gaatattacg ctttccaggc tttgcataag 180
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<210> 56
<211> 2508
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 56

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 <211> 651
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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 aaaaaggacc gattgggtga tattttgcat attatcttgc gagcatgtgc actcaatttc 180
 gggggcgggtc cccgtggtgg cgctggtgac gaagaggatc gatctattac gaatgaagaa 240
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<210> 58
 <211> 345
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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 aaaaaatgct cagcgattta ccttcattac aaccaccgag attcactagg aaacggagct 300
 gtccctcgga atttattgtc aacatatcat ccaatgttaa tntag 345

<210> 59
 <211> 552
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 59

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tttttgttca tcatatcggt acatatctgt gaaaagtact ttatctcaat gggttttacgt 180
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aagatacttt ga 552
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<210> 60
 <211> 1599
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 60

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tttggttttg acctcgacct ggatcatctc ttgaaggagt tggactccaa tgtattggac 180
gcttggggcc aaatagagca tttgtacca aaccaggtta tgagccttga aacttccact 240
aagccaaaat tcctgaagc aatcaaaacg aagaaagact gggactttgt ggtcaagaat 300
gacgcaattg aaaactatca gcttcgtgtc aacaagatta aggaccctaa aatcctgggc 360
attgacccaa atgtcacaca gtacacgggt tacttggatg tggaagacga ggacaagcat 420
ttcttctttt ggacttttga aagtagaaac gatcctgcaa aggatccggt catcctttgg 480
ttgaacgggg gtccaggttg ttcttcacta accgggctgt tctttgaatt aggaccctca 540
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tccattggac ctgatttgaa acccatcggg aacccttact cttggaacag caatgccacc 600
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<210> 61
 <211> 1107
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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 ccacataacg ccaaattcga agtatcgata ttaaacaaac tgggcaacaa atgtaagcac 180
 atcttacctc ttctagagtc taaggctacc gataataatg acctattgtt gttgtttccc 240
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aaaaatccct attacgattt gctaaatccc agtatcccaa ttgttgcgga cccccccggt 360
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 aatatcatgc taacaaacaa taccagcacc gtatcccaa agttgtacat aattgatttt 540
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<210> 62
 <211> 1647
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 62

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 aattttgaat atgatgaaga aattctaatt ccatttgcgc cacctgtata taaaaagtca 540

ggtgaactat tgaagagctc attgaagaga agatcaaaat cattacctac aaccccaggt 600
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<210> 63
 <211> 1593
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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<211> 651
<212> DNA
<213> *Saccharomyces cerevisiae*
<400> 64

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 <211> 405
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 <213> *Saccharomyces cerevisiae*

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<210> 67
 <211> 336
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 <213> *Saccharomyces cerevisiae*

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<210> 68
 <211> 366
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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<210> 69
 <211> 597
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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<210> 70
 <211> 1554
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 70

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<210> 71
<211> 315
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 71

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<210> 72
<211> 5619
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 72

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 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 73

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 <213> *Saccharomyces cerevisiae*

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 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 75

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 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 76

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gttgatctgc ttcagtttcc ctgggttaaat gctatcaagt atcggccac atctgtcaag   540
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<210> 77
 <211> 2352
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 77

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<213> *Saccharomyces cerevisiae*

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 <213> *Saccharomyces cerevisiae*

<400> 81

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<211> 1062
<212> DNA
<213> *Saccharomyces cerevisiae*

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<210> 83
<211> 534
<212> DNA

<213> Saccharomyces cerevisiae

<400> 83

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<210> 84

<211> 411

<212> DNA

<213> Saccharomyces cerevisiae

<400> 84

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<210> 85

<211> 462

<212> DNA

<213> Saccharomyces cerevisiae

<400> 85

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<210> 86
 <211> 1995
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 86

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<210> 87
 <211> 2301
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 87
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<210> 88
 <211> 1971
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 88

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<400> 93

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<211> 873
<212> DNA
<213> *Saccharomyces cerevisiae*

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<211> 3252
<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 95

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<213> *Saccharomyces cerevisiae*

<400> 96

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<212> DNA
<213> *Saccharomyces cerevisiae*

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<210> 99
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 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 99

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<210> 100
 <211> 1923
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 100

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 taa 1923

<210> 101
 <211> 549
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 101

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<210> 102
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<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 102

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 <211> 810
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 103

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<210> 104
 <211> 1470
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 104

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<211> 1485
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 105

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<210> 106
 <211> 2316
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 106

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<210> 107
 <211> 309
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 107

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 gagctatcga ttttttctgc ataccaagca agtttacctg gcgaaaagaa agtcgacaca 180

gagcggctga agcgtgatct atgcccacgt aaaccattg agataaagta cttttcacag 240
 atatgtaacg atatgatgaa caaaaaggac cgattgggtg atgttttgcg tgtgtgctgc 300
 ccaagttga 309

<210> 108
 <211> 3093
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 108

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<210> 109
<211> 1626
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 109

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 aatcatttga aggagactca agattatctg gccctttaca aaaaagctta tgggatagaa 1620
 ttttaa 1626

<210> 110
 <211> 1770
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 110

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 ggtattgcct ccaagttgga gtacatcaaa gagcttggtg ccgatgccat ttggatctcg 180
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 aagggttatg acgccgaagg caagccaatt cctccaaaca attggagggtc ttacttcggt 480
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 gttggatact ggtagacca tgggtgtagac ggcttttagaa ttgatgtggg aagcttgtac 660
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<210> 111
 <211> 2115
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 111

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 gaaacttcac tgaatttggg gcttcctcca ctatctttcg actctccact gcccgtaacg 240
 gaaacgatac catccactac cgataacagc ttgcatttga aagctgatag caacaaaaat 300
 cgcgatgcaa gaactattga aaatgatagt gaaattaaga gtactaataa tgctagtggc 360

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catttgaaaa ggcatgtgag atctgttcac tctaacgaac gaccatttgc ttgtcacata 2040
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<210> 112
 <211> 375
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 112

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<210> 113
 <211> 1098
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 113

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 gccgtcaacg gtactgcctg ccacacgggt caccatctat atttcaacta caactacggg 900
 caattcacca ctctgtggga cagactaggg ggttcttacc gtagaccaga tgactcattg 960
 tttgatccta agttaagaga tgctaaggag acctgggacg ctcaagttaa ggaagttgaa 1020
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 accaagaaga acaactga 1098

<210> 114
 <211> 1659
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 114
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 gtgaatttaa cagaaacagg ggcaatcttc acgagtaaag gttttaccgg gttaagcaaa 240
 ggtttcacag ataagacct ggatttcttg gtacgagtgg ccggttcgca ggcgggtttt 300
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 ctgttgatga gacaacagtt gatgagtacg catgaacaaa ttttgatctg cggtagattg 480
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 gcagactgca cagttgaagc taatgaagtc agctctgttg aaaatcatat agacctatct 600
 gccattaacg gagaactgcc tgtggaaaat tggtagcacc gtttatctaa cgtagcaagt 660
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<210> 115
 <211> 1722
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 115
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 ttgcgtgact ttgcaaaacc taatcccgtc gacacatttt ctaatcttga ttctgggtcat 180
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 aatttgaaaa ggggattgaa gaaaatacgt catgggagaa acggacatca aagcgaaaag 360
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 aataatacgc cctgtttcga cagattccac acaaattcga aagaatttga aacgcaattt 480

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acaacatctg aaaagaggct atgcttaaaa caatactcag atgaacctga atcggatcat 780
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agagcttcga agtgtgacac agtaggtgta gcccaatttt tacattattt tcaatataca 1680
gagtataaaa ggcagagaaa tgaagcagaa attatagact ga 1722

<210> 116
<211> 618
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 116

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gaagtgtgcg acgcgtcggg tacgctagca tgcaccgctt cattgttcac aagcagcggc 180
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 attcctgtac tgccctcggt gttatttttt ttgttggtgt tgetctgctt tcttccagag 360
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 aactttgctt cccactcttt cactactgac catcgatcct tcttatttca tagcctcagc 480
 agcacaaatg ataatacgag aaaaaggccc gaccgggtaa ccaacccttt tactatctct 540
 cgctctacct ttagtaataa tgcgtcttat ataaggattt actcatacag tagtccaaaa 600
 tatacctttc cgtgctaa 618

<210> 117
 <211> 534
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 117

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 tegtactaa gagtagatat agtcatttct atttgttacc acacacaaat atatcttcat 180
 ccggtgata tttgtctcta ctgccccctt gcttgcaatt taatgaccaa attacacatg 240
 ttagcttcaa gaaaaatgat gtaccatcaa aatgtctctt gcaacgaacc ggggcaccgc 300
 gccggcagag tcaggaaagc gagatcgaca ctgatagtga taaacagcaa cacaatggag 360
 cgattaccat tcaactcgga cggatccgga caacagtcaa ataaactccg ggatcccaaa 420
 aagggccgta cacacaaacc caagccgagc gaaaaacaca aaaaaataa aacagggaaa 480
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<210> 118
 <211> 1833
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 118

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agtatcatta tgacgttgta cctgacctta tga 1833

<210> 119
<211> 3363
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 119

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caggcgaccc ctgaatgcc aaaaagtttcc tctaagtatg atcctgataa cccaaacaaa 180
gataagttgg gaacatacga tgggggtatct gtgcctactg ctttaaactg attgtctatc 240
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gaatttggtg gatccattgg gcttgtcttt ttcttagggc aggtgttcaa tgcaggtatg 480
aacgcagtggt gtattatcga acctttactc tataacttgg gttattctgc tcaaggcgag 540
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acggtcattc ttttcttatg ttttctgtg gcttttgttg gctcgcaaac agtgtcaaga 660
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tag 3363

<210> 120
<211> 543
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 120

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gagtaccgga cctcatcgg tctcgtgtt atacctttca ccgttactga aagtaaggtc 180
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taa 543

<210> 121
<211> 2808
<212> DNA
<213> *Saccharomyces cerevisiae*

<400>

121

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<210> 122
<211> 381
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 122

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<210> 123
 <211> 1527
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 123

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<210> 124
 <211> 2586
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 124

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<210> 125
 <211> 321
 <212> DNA
 <213> Saccharomyces cerevisiae

<400> 125

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 cccagttac cagatccaat cacagtaacc ttgaaaggct tttcggcagc cttcaaagaa 180
 acagaagagg aactttctct tctaccagca ttcaagtggc cggaagttaa gtttaatcta 240
 tcagcagcag cagacatctt tatattatca atatttgtgt ttgtggaggg ggggggtgta 300
 caatatacaa ttgtttcttg a 321

<210> 126
 <211> 1482
 <212> DNA
 <213> Saccharomyces cerevisiae

<400> 126

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 tcagcaatac acctgcaa tccaacaaa tctactcca atacattcaa ttcttttagat 180
 ttttctacga ggtccaggat aaatggttct ctgagttatt tatactccga tgcacagcaa 240
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<210> 127
 <211> 1017
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 127

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 tctggctcag taactatcac atcttctgaa gctccagaat ccgacaacgg taccagcaca 180
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 ccactactg actacaccac tgactacact gtagtcactg aatatactac ttactgtcca 540

gaaccaacca ctttcaccac aaacggtaag acttacaccg tcaactgaacc aaccacattg 600
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<210> 128
 <211> 1386
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 128

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 aaagcgggtg ttcaaagtta cgggtgttagc aaggaggctg atatgggcaa tgataaaata 180
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<210> 129
 <211> 2280
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 129

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<210> 130
<211> 1863
<212> DNA
<213> *Saccharomyces cerevisiae*

<400>

130

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<210> 131
 <211> 1089
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 131

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<211> 984
<212> DNA
<213> Saccharomyces cerevisiae

<400> 132

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<213> Saccharomyces cerevisiae

<400> 133

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 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 134

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<210> 136
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 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 136

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<211> 1731
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 137

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<211> 3570
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 138

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 <211> 2082
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 139

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<211> 4074
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 140

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 <213> *Saccharomyces cerevisiae*

<400> 141

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<400> 142

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<210> 143
 <211> 2682
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 143

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<210> 144
<211> 582
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 144

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582

<210> 145
<211> 1422
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 145

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<210> 146
 <211> 4104
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 146

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<210> 147
<211> 567
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 147

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ggtatctctt ggatcatcta ccaaattggcc agaaagagaa ttgttgctaa aaacgacatg 180
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 gttactaccg tcagagacta cgatttgaag gaaatagaca gtgctatcaa gtctatctac 300
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 ttgggtaage ctgcaaccgg cgatttgaag agaccattca aggtcccatc tttgtttggt 480
 ggtatgggtc aaactgggtc aaagaccgac aagaaatcta tcgaagaagc tgaaagagcc 540
 ggtaacgctg gtgttaaggc tgaatga 567

<210> 148
 <211> 435
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 148

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 cagtccttca cggaaaaaaaa aaaagagcac tgggtcactt cggaaaaact tttgactcaa 180
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 tttttcagtt ggtcaacact ctttagaggt aaaaaaaaaa aaaaaaaaaa aaaaaagaga 360
 attcttcatg taatttacca tgattctacg tttttgcaag caaaaatgaa gataatccga 420
 ggcgatgcga agtag 435

<210> 149
 <211> 351
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 149

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 atctcgatgc aggaaccagg tataagtagc gatagtaaatt tttttctctt ctttttaata 180

atccggaaag tctcagttgc gaggatgtgc agacagttgt atgaatgtaa aaaaagtaat 240
 gaaaacattt gggagtatctt caaacggagg ttagagacga ggctttcgag cttttctatt 300
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<210> 150
 <211> 642
 <212> DNA
 <213> Saccharomyces cerevisiae

<400> 150
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 caggttagca aatttgtgac tagttactat gggccatcat cgtcgtcatg gcagtcagga 120
 atatggattt tgtttgtgct gtttgttgcc gcagtaatcc ttataatact gttcactttt 180
 gtagcgaaca gaaggagacg aaggatgggg cgtgctccca ttagaggtag ggcattggtg 240
 acaccgcctt catacagaca gtctcagcaa caatatactg ggaccgttca gcaacggaca 300
 gatgattatg ttcctgagta tacagaaaca gcgaacgaac atgatcttgg atactatgac 360
 cagcggggcg agtttcaccc caacgataag gctgcatacg tggccccccc gccattggta 420
 caagaatgtt catcagaatc tgttaattct ttagaaagac ctcccgtgc ttagattcac 480
 caagctaact ctttagatac ggattacggg ttaacaaggc ctagcaatgg gcgcgttcca 540
 gctgtaagtg atacggtgga gcaattggaa aggcttccgg gcgggactac aacgcaggaa 600
 attaaccac cggagagggc aaaggtaaatt gcaaggatcat ga 642

<210> 151
 <211> 3042
 <212> DNA
 <213> Saccharomyces cerevisiae

<400> 151
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 aaatgtaggc tatttcacta caataaagtt catggactta gcctttctag tgaagggaaa 180
 attttggcct atgggtgcaag atcagtaaca atagtggaa ttgaagacgt tttaaagaaa 240
 gaggcattgg tggatttcga aaggattaac tcagattgga ttaccgggtc tacattcagc 300

ttgacaact tgcaaatata ttgtttaaca tgttataata aagtgctaatt ttgtgattta 360
 aattgtgaag ttcttttttag gaagtctctt gggggagaaa gatctattct atattccggt 420
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 gaagattgca catgccgtgt atggaacatt atcgaatcac gagaaaacgt tgccgaatta 780
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tactgatcg gaggtgttgg tttatcaatt tggaaaaaat ga 3042

<210> 152
<211> 933
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 152

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gactacgctt ccaccttcgg tattgccgtt caaccaatct ccactacatc cagcgcatca 180
tetgcagcca ccacagctc atct.aaggcc aagagagctg cttcccaaat tgggtgatgg 240

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 cgtgatgggtc aaattcaagc taccaccaag actacctctg ctaagactac cgccgctgcc 420
 gtttctcaaa tcagtgatgg tcaaattcaa gctaccacca ctacttttagc cccaaagagc 480
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 gccgccgttt ctcaaatacg tgatgggtcaa gttcaagcta ctaccaagac taccgctgct 660
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 gtttcccaaa ttactgacgg tcaagttcaa gccactacaa aaaccactca agcagccagc 780
 caagtaagcg atggccaagt ccaagctact actgcttggc tattggtgac aatgatgtct 840
 tctaccaatg tttgtccggt actttctaca acttgtacga cgaacacatt ggtagtcaat 900
 gtactccagt ccacttggaa gctatcgatt tga 933

<210> 153
 <211> 345
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 153
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 gtcttgggtca gaatctcgat tctcttcac catgacgaga atgcgtatac gcagagccaa 180
 tataatctgt atacgggacc tttgacatta aggtttctgc agagagtta ttacatgcat 240
 tttcatatat atatttttaa cgccattcct ttacggtatg taaagaaaaa tgatccaatg 300
 agcggccctt cgtacgagat gagatataat aagaatgaaa gatag 345

<210> 154
 <211> 375
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 154
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tccgcgttct ctctttttcg ctctttttctg gctaccgcgc ccgccttata tataaaatct 120
 cttccgaata acaaagtggc cgaaacaagc gccaacgtcg accattttgc caccgtgtca 180
 ctgtgcacga gcaacgaaaa actggcggtg gttgcgcctc acgaattgct tgagcctctt 240
 cccaatatca tcgcgcattt atttgagtca ttctctgccg ctttattatt aaaagtctgt 300
 gtgctatcaa aatgctcttg ctctgttca ccctctatgc gtaaacaact gcgcgtttct 360
 ccctttctct tttag 375

<210> 155
 <211> 1644
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 155
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 gcagctgcat ttactggcgg cagggacggg gtttcgtaca gtaatcagcg atttgctgag 120
 ggttcgggcc attcttctga cttagcaaag tcattagaag actatcggcc tcctgatgaa 180
 aagccgtcct cattgtcatc tgtgggggaa ggtggcgcta atgaggaaga gaagggcggt 240
 aacgacggcg gtcccttggc aagaattcaa acagggcttt tttctccaag actgcgaaat 300
 cataggaaaa agattctctc gaagtttgtt ttgaacaact tcttcattgc ttgtgtgtgt 360
 gtatcgctca tatcgattta ctgggggtgcc tgttacggaa cagatcgta ctttttcaaa 420
 gtgaaaaata ttgttgtatt gcaggatgcg ccatctaata cttcagttca atctatttcc 480
 gcgatcatac cctcattgtt agcgtctgtc cccgggacat ggcatatata caacgcaaca 540
 tcatttcata ggaaatttgg tacgacgaac tccaccgaaa ttgacagaaa gatagtcgat 600
 ttaattttacg atgagagata ctggctggcg ttaaactgta aacctaatgc tacagacact 660
 ttgtataatt ctttgattag ccaagacgca aactcggagt tcaattcatc aatttttttt 720
 gaatccgtgt ttgaaagtgg tcgtgaccca tcgagtgtta aatcgaccat tctaccactc 780
 atgcaacaat tggaggtccg ctttcagaaa tattacgtca aggaatatct tccctcattg 840
 atgagcaaca tcaattctaa tgacagagat cttaatataa acatggagaa ctgggcgatt 900
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 aataacaacc cgcccggaat ttaa 1644

<210> 156
 <211> 1761
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 156

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 aagtatgctt acgccgctta a 1761

<210> 157
 <211> 810
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 157
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<210> 158
 <211> 2970
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 158

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 <211> 2835
 <212> DNA
 <213> Saccharomyces cerevisiae

<400> 162

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 <212> DNA
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<400> 163

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<400> 164

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<210> 165
 <211> 1464
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 165

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<210> 166
 <211> 534
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 166

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tctatgcagc ctacgctgaa cccgcaaacc gaaacgctgg caacagattg ggtgctgctt 180
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 gtogaagggg acaattatctt tcattcgatt gatagcaata cttttggccc catttccagt 420
 ggggttggtca tagggaaagc tataacaatt gtttggccac cctccagggtg gggaacggat 480
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<210> 167
 <211> 1395
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 167

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 attctagagc ctaatgtttt gacaaagtcc gataaggacc atattgcatt ttacggtata 180
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<210> 168
<211> 363
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 168
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ccctcaggct cctccattg cgagtgttc gtctctggat tgaaaaata ctctcttttc 180
ttggacttac tatacctgac ggtccacggg gttggcagcc cggctctcga tgctacgtca 240
gatggcattg gtgcgtcgtt gtgggtgccg agtcgggttat gcgtgggaat aagtaccaca 300
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tga 363

<210> 169
<211> 1845
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 169
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<210> 170
 <211> 510
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 170

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tggatgtcgt acttctacag ctcttcagaa ttgtcaataa gactgtcgtt cttctgggtg  180
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gggatagggtg gcatggcagg gtggcaatgg ctttttttga tagaaagaat tttcacttta  300
gtcatcggtg tcagtgcata cttcttgatg gtaccctccg tagttcaaac gaagaaacct  360
tggagcaaga aaggatgggt cactgagagg gaagaaaaaa tcatcgtaaa caagattctg  420
agagatgata cgacaaaagg ggatatgaac aataggcaag gtatgtcact taaaatgtta  480
tggcagggga taacagatta ctatatatag                                     510
  
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<210> 171
 <211> 609
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 171

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acggaagtgc ggtcattcta cgaagacgaa aagtctggcc taatcaaagt ggtaaaattc  180
agaactgggtg caatggatag gaaaaggctt tttgaaaaag ttgtcatttc cgtcatggtc  240
gggaaaaatg taaaaaagtt cctgacgttt gttgaagacg aaccagattt ccagggcgga  300
ccaatccctt caaagtatct tgttcccaag aaaatcaact tgatgggtcta cacgttgttt  360
caagtgcata ctttgaaatt caatagaaag gattacgata ccctttctct tttttacctc  420
aacagaggat actataatga gttgagtttc cgtgtcctgg aacgttgtca cgaaatagcg  480
agtgctaggg cgaacgacag ctctacgatg cgtactttca ctgactttgt ttccggcgca  540
cctattgtaa ggagtcttca gaaaegcacc ataaggaaat atgggtacaa tttggcagcc  600
  
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<210> 172
<211> 1947
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 172

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aaactagcat gccagaattg ccgtagaaga agaaggaaat gtaacatgga aaagccttgt 180
tcaaactgta tcaagtttcg taccgaatgt gtattcactc aacaagactt aaggaacaaa 240
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 aacaccaatg atggtttgtc gaagtaa 1947

<210> 173
 <211> 1461
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 173

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 atgtacacta gtgggaagga gatcaggaat aagaaaggta atttaattag ggccgcttct 180
 ttccaggact ccacaatacc ggatgcgagg gtccaaccag atcgtcgttg gttcggtaac 240
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<210> 174
 <211> 1074
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 174

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<210> 175
<211> 3306
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 175

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cctgataatg atactgccag taaactgaat ccagccaagt ccgagttaga aaacttgta 540
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<400> 176

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 <212> DNA
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 <213> *Saccharomyces cerevisiae*

<400>

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<210> 181
 <211> 669
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 181

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<400> 182

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 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 183

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<400> 184

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<213> *Saccharomyces cerevisiae*

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 <211> 1980
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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<211> 1668
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 190

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 <211> 597
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 191

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193

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3303

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DNA

<213>

Saccharomyces cerevisiae

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<210> 197
<211> 2922
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 197

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2922

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<211> 324
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 198

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tgtactttgg atatgctggt ttag 324

<210> 199
<211> 987
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 199

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<210> 201
 <211> 1533
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 201

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<210> 202
<211> 1587
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 202

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<210>

203

<211> 2787
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 203

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<211> 2409
<212> DNA
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<211> 1470
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 205

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<211> 2931
<212> DNA
<213> *Saccharomyces cerevisiae*

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tgtgtattcc taaaaaaaca ttaccgcag aaggaggata gttcccagtc tttgcctact 180
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 <211> 1515
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 207

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 gatgagaaga agcccggttt cggttaaccat tccgaggaca tacagaccaa attggacaag 180
 aaattaggac ctgagtatat ctccaagaga gttgggtttg gaacaagcag gattgcatac 240
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 ggggtgtactg caattgttcg tgttacgttg actagcggga cttataggga agatattggg 420
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<210> 208
 <211> 1092
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 208

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 cgtaaccagt ga 1092

<210> 209
 <211> 1800
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 209

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 <211> 2772
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 210

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<210> 211
 <211> 369
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 211

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 cccaccata gtgatgtaac atgcagtaac gcacggcggg ccgaaagtcg gactttaccc 180
 cagatttgta gttgtatcct attggatcac gggcgacgga caagaccga agtgcggacc 240
 ggcattggta gcttgacgg aagctttaa ggtttccctt gtttcggcat tagaagaggc 300

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<210> 212
<211> 2610
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 212

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agaagaagca taaggctgat ttttagaaga gcagccgaat tgcctagagt ccatatgggg 240
cctcttactt attcacatgg gataaatgag cttgttaaca agaaattaag aaaagactgt 300
gatctcagca cgctatgtcg cgtattgcaa agaggaatca ggatgattag gatgacaaga 360
agaagaagga agttctatga atttaaatta atcaataaca acgggcaa ataatatggaaa 420
gatggttcga agtatctgga attagactcc gttaaagaca tcagaatcgg tgatacggcg 480
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gctattattt ataaggtttc caacaaattg aaagcgttac acgtagtgtc tttgaatgaa 600
ttggacttta acacattctt aagctgcatt tgcggtttag tgaagttaag gagggaatta 660
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gtttctgaaa aagaggaaga tgagaaaaag gacacattga gctttgcaga tgtgaagaaa 780
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<210> 213
 <211> 1815
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 213

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aataacaaca acggcggtca caacgggtggc cgtggcggtg gcagcttctt tagcaacaac 180
cgtcgtggtg gttacggcaa cgggtggttc ttcggtggaa acaacgggtg cagcagatct 240
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aaggccgaga tcgcatatt tgggtgtccc gaggatccaa atttccaatc ttctggtatt 360
aacttcgata actacgatga tattccagt gacgcctctg gtaaggatgt tcctgaacca 420
atcacagaat ttacctcacc tccattggac ggattgttat tggaaaacat caaattggcc 480
cgtttcacca agccaacacc tgtgcaaaaa tactccgtcc ctatcgttgc caacggcaga 540
gatttgatgg cctgtgcgca gaccggttct ggtaagactg gtgggttttt attcccagt 600
ttgtccgaat catttaagac tggaccatct cctcaaccag agtctcaagg ctctttttac 660
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tcttcttggt ggtga 1815

<210> 214
<211> 1203
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 214

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agggccactc accccggaat tattccaaat aaggagtggg ctgctgtgta ttatggtcag 180
cgtgctcaaa gacctggtag catgatcatc acggaaggta cgtttatttc cctcaagcc 240
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atcttttttag ccatccatga ttgtcagtcg ttcgcgtggg tacaactttg gtcttttaggc 360
tgggcatect tcccagacgt attggcaaga gacgggttac gctatgactg tgcattctgac 420
agagtgtata tgaatgctac gttacaagaa aaggccaaag atgcgaataa tctcgaacat 480
agtttgacta aagacgacat taaacagtat atcaaggatt acatccatgc ggctaagaat 540
tctatcgagg ctggcgccga tgggtgtaga attcatagcg ccaatgggta cttgttgaat 600
cagttcttgg atccacattc taataagagg accgacgaat acggcggaac gatcgaaaac 660
agggcccgtt ttacactgga ggttgctgat gctcttatcg aaactatcgg tcctgaacgg 720
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cccagaacct tgataggcta tggtagattc ttcattctta acccagattt agtctaccgt 1080
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gaaggttata ccgactaccc aacatatgaa gaggcagtag atttaggttg gaacaagaac 1200
tga 1203

<210> 215
<211> 354
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 215

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aagctgcagc atacgatata tatacatgtg tatatatgta tacctatgaa tgtcagtaag 120
tatgtatagc aacagtatga tactgaagat gacaaggtaa tgcattcattc tatacgtgtc 180
attctgaacg aggcgcgctt tccttttttc tttttgcttt ttcttttttt ttctcttgaa 240
ctcgagaaaa aaaatataaa agagatggag gaacgggaaa aagttagttg tggatgtagg 300
tggcaagtgg tattccgtaa gaacaacaag aaaagcattt catattatgg ctga 354

<210> 216
<211> 1575
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 216

atggaacacc aagcacttcg aaggcttgta ctgtactgcc ccaatttcac cgcacgtggt 60
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agagatgaga aaggatgattg caatgaagaa aaggattctt ccaaagattt ggggagggta 180
ccgtcgaaga tgaaacgagc atatgatggt gaaacagtta ttaaagaggg agattcgcac 240
gtgagtcgc tagcgcagca gggaaagcag cccacagacc tcgcatataa cagcagatcg 300
aagatatctg gttctaattt gcattttattg gttcctagag ttgcgtctac agactatatt 360
tcgaataaag aggttcacac ggagggcctg tttgccggct atcgaccctt gtttctgggg 420
aactcagggtt ttccgtctga tgcaagaaag ggtaaaaact ttcattgagtt agacgacgtt 480
cttcccaata tacaggtagt ggacgcttcc gagaaagatg gcaaactcaa tgtgcaggag 540
attattgagg acttaciaag aacaagtttg agagaaagca ttcattagtat ggaacagtta 600
ccatcttcgc acaaacgtaa acccgtaata ccgtgggacg catctataag tggcatgggt 660

tataatgaca tgcctttcaa atatgtgccc aaaaatatta ttctgaaaat gaagccattt 720
 aaacttttgc gtattgagag aaaaagtcaa gcgaagaatg caagaaaagcc tactatgata 780
 aaacttcagt ttcacaatcg aagaatcaat gacacccag agttagtga tttataccat 840
 aataaatccc gtttgcacga gtcactttac aatacaaaac cccttcaaga atctggatat 900
 tcaagtgcaa atacaagtaa aagacagaaa atgttaaaag caagaagcga ctttgaacat 960
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 aatgaactaa ctaagttaaa taagatactt gctagagaat tcaaaaaatt gacaaaagcta 1080
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 cataaggacg ttcaagtcag cttcaatgac aagtatgttg ttactaggag cggcgtgagg 1500
 tatacgaggt atcccactaa tttgaatata caattattgg aaactgcatt tgaagaatgg 1560
 gactactatg agtga 1575

<210> 217
 <211> 1557
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 217

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 attttggtga ttaaaacatc ttccatcggt ccaccttcta ttgcacgtac agttactcct 120
 aatgctagta ttcccaaaac tccggaggac atctctatct tgcccgtcaa tgatgaacca 180
 ggttaccttc aagattcgaa gactgaacaa aactatcctg agcttgccga tgctgtgaag 240
 tcacaaacaa gtcaaacatg cagcgaagaa cataagtatg ttatcatgat cgatgccggc 300
 tctaccggtt cccgagtaca tatatacaag tttgacgtct gtacttcccc acctacatta 360
 cttgatgaaa aattcgacat gttagagcc : ggtttatctt ctttcgatac cgattccggt 420

ggtgcecgcta actcccttga cccattactg aaagtagcaa tgaactatgt ccctattaag 480
 gcaagaagtt gtactcccgt tgcggtgaaa gctactgcag gcctaagact cttgggtgat 540
 gccaaatctt caaaaatttt gagcgctgta agggatcatt tggagaagga ctatcccttc 600
 ccagttgtcg aagggtgatgg tgtttccatc atgggcggtg atgaagaagg tgtcttcgcc 660
 tggattacta caaactacct attaggtaat atcgggtgcta atggcccaa gttacctact 720
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 caaagagaat tgagaactgg aaagaaaatt gccataaag aaatcggttg gtgtttaggt 1500
 gcgtcattac cattgttgaa agctgataac tggaaatgta aaattcaatc agcttga 1557

<210> 218
 <211> 552
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 218
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 ctggctggag cagcaactct gttagagaca ataacgttct tgatttcagt caatggttcg 180
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acagctctgc ctctcaattc ctttctgact tegtgcattt gttggaaga aacattgtca 360
acaccaacaa cgaacaaaga cttgtattct tccaagtatt ctcttaattt agcaaagtat 420
tcagctttct tttcacgaat gcctcccatt tcaaacttat tatacgtatt tattagactg 480
tttgcaggat gtttaaaggt attccgctta tgtatcttat ggctgaaact tgaaaaaaga 540
atcgagaatt ag 552

<210> 219
<211> 663
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 219

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attgagacac aactagaggc gtatttcagt gtgcttgagc agcaaggcat cggcatggac 180
tetgcgttgg tgacgccaga cgggtatcct cgttcggatg tcgatgtatt gcaagtcact 240
atgatcagaa agaattgttaa tatgctgaag aatgatttaa atcacctttt gcaaagatca 300
cacgtcttac taaaccagca ctttgataat atgaacgtta agtcaaacca agatgcaaga 360
aggaataacg acgatcaagc tattcagtat accatccctt ttgcatttat cagtgaggta 420
gtacccggta gcccttcaga taaagcagac ataaaggttg atgataagct gatttctatt 480
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aatgaagaca ggccacttcc cgtccttctc ttgagagaag ggcaaatect aaagacatcg 600
ctaacacctt cgagaaaactg gaatggtaga ggtcttttgg gttgtaggat acaagagcta 660
taa 663

<210> 220
<211> 2295
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 220

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tccacccacg ctcccataga aaatgacacg tttttcgagg atgctgataa agtcagtttc 180
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caacaaggta tgtacattta tttggaccct caccaagacg tctggtctag gtttagcggt 420
ggatctggag caccgctatg gaccttatac tgtgcagggt ttcaacctgc aaacttcctg 480
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 gactaccagg ttcttgaatg gtttcacgag cctggccatc agttcattga aatttgcgca 2220
 aaatcgaagt caaggcccaa cacccttgga agtgacactt cgaatgactt accagcggaa 2280
 tgcgttatca gctaa 2295

<210> 221
 <211> 3123
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 221

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 gacgggtggca atttcccaat gtatattgcc attaatgagt attttaagcg aatggaagat 180
 gaactagata tgaagcccg tgacaagatc aaagtaataa ctgatgacga agaatacaag 240
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 ttctactcaa agataacagt ggagaaggct ccgacattga tgagagccaa gtctaccaa 360
 aggatatata gtccattaac caatgaagat cctcttcttt ccagcacttt tatcagtga 420
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<400> 225

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<400> 226

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<211> 2772
<212> DNA
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<400> 227

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<213> *Saccharomyces cerevisiae*

<400> 229

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 <213> *Saccharomyces cerevisiae*

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<400> 231

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 <213> *Saccharomyces cerevisiae*

<400> 235

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 <211> 1137
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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 <212> DNA
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<210> 238
 <211> 1692
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 238

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<210> 239
 <211> 462
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 239

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<210> 240
 <211> 858
 <212> DNA

<213> Saccharomyces cerevisiae

<400> 240

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<210> 241

<211> 4263

<212> DNA

<213> Saccharomyces cerevisiae

<400> 241

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<210> 242
 <211> 2073
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 242

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<210> 243
 <211> 1425
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400>

243

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gcctttacca ttggatgtct agcctgtggg ttctcgaaaa acatctacat gcttagtttt 180
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<210>

244

<211>

243

<212>

DNA

<213> Saccharomyces cerevisiae

<400> 244

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<210> 245

<211> 483

<212> DNA

<213> Saccharomyces cerevisiae

<400> 245

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<210> 246

<211> 2424

<212> DNA

<213> Saccharomyces cerevisiae

<400> 246

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<211> 1956
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 248

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<400> 260

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 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 263

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<210> 264
<211> 3402
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 264

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 <211> 1815
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 265

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<210> 266
<211> 1725
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 266

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<210> 267
 <211> 513
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 267

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<210> 268
 <211> 2358
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 268

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<212> DNA
<213> *Saccharomyces cerevisiae*

<400>

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 <213> *Saccharomyces cerevisiae*

<400> 271

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<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 272

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<400> 275

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<213> *Saccharomyces cerevisiae*

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<213> *Saccharomyces cerevisiae*

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 <211> 3396
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 280
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 <211> 1674
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 281

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<210> 282
 <211> 1185
 <212> DNA
 <213> Saccharomyces cerevisiae

<400> 282

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<210> 283
 <211> 987
 <212> DNA

<213> Saccharomyces cerevisiae

<400> 283

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gcggctatag tttcataccc agaaaagaga aattcatcaa ctgcaaataa agaagatggg 180
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<210> 284

<211> 1368

<212> DNA

<213> Saccharomyces cerevisiae

<400> 284

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aagccaaaga caccggaaga tatatctgac aagccactac ctttattgtc tagcttcgaa 240

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<210> 285
 <211> 1929
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 285

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<210> 286
<211> 2067
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 286

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<210> 287
 <211> 2643
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 287

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 <212> DNA
 <213> *Saccharomyces cerevisiae*

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 <213> *Saccharomyces cerevisiae*

<400> 290

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<210> 292
<211> 3486
<212> DNA
<213> *Saccharomyces cerevisiae*

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 <211> 2433
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<211> 1332
<212> DNA
<213> *Saccharomyces cerevisiae*

<400>

294

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295

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3351

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<213>

Saccharomyces cerevisiae

<400>

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<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 296

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 <211> 3342
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 297

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<210> 298
 <211> 1548
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 298

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<210> 299
 <211> 2340
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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 aagtatgaat tggctgggat tgctgttcat atgggcggtg ggccacaaca cggccattat 1860
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 gcagttaaag aggaaacagt gttagaattc acaggtgaat ctccaaatat ggcaacagca 1980
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2067

<210> 308
<211> 2196
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 308

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<210> 309
 <211> 1587
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 309

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 ggaacaccag atgttggcca caaatctact gttgaaacta agccaaacgt tggatggcaa 180
 gcctctcaca gtaatttggc tgcattacac gaaaaagagc agaaatatga aatggagcac 240
 catcatgctc gtcataaact gcacgtcaa gttattccgg attacacgct tgcctcgacc 300
 gcaatgttca gcgattgtat gttcaacgca gcaccagata aagtagaag tctcagtacg 360
 atgaagtctt ctggactctc gccaaaacac ccatttaacg tagtcgccac ctttaaagga 420
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cattttccct catttaagat gttgcaagcc cagcagcacc cagcccatcg ccattacaaa 540
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taccgcaacg aggcccttga tattgtcttt ttaattatca tcacgtcat atgctatacc 1560
ttcaagcacc tagtatcgca taaataa 1587

<210> 310
<211> 435
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 310

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ctagtaccgc caccaaggac gattgcgaac caggaccatt tccatagatt aaactacctc 120
taccaaatat ccgcttacca aacaagagca agacagaaag caagaacaga cgcacatacg 180
cctttggcac gcaattatat caaatcaatg gacctaatg gtaagaaaac caagacatca 240

ctgcttccta cgataaagag aacaatttgt aaaaaatgcc atcggttggt atggacccca 300
 aaaaaactgg aaatcacatc cgacggagcg ctttcggtaa tgtgtgggtg cggtagcggtt 360
 aaacgtttta atattggcgc cgatcctaata tacaggacct actcggagcg ggagggtaat 420
 ctactaaatt cttag 435

<210> 311
 <211> 3270
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 311
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 gaaaacaata ttgagtatct ttttaactttt ttggctgaac aagccgcttt ctcccaagat 180
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 ttgaccaaaa taatacaatt cactgatatg gttataaaaa ataaggattt agaacctcca 840
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 aatgagagaa gtttgaccga aagggaaggc caaacgggtga taagttcagt taaaaagttg 3180
 ttgggatttt tgcttcttag tgatgctatg gcaattttca atagatatcc agctgatatt 3240
 atggagaaaag tacataaatg gtttgcataa 3270

<210> 312
 <211> 351
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 312

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 ttagtttggg agagttgggt gacatattca attaaggaat catcgcttaa cgtagataga 180
 aaagaccttg cattcaagcc gccggctttt gctgttaaatt gtgaatcatt gacactttgc 240
 tggctaaggc aattgttttt atcaggtgtt tcctatttta tagagtattc caaatcgctg 300
 tccaataaat ctacaagacc accatgttca cccatcgctg gatatgccta g 351

<210> 313
 <211> 1146
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 313

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 gactctgctt ttaatgcagc ttactcacct catatgtatc cgaactctcc gtattatgaa 180
 ggttcattgga ataccgggtta tactcctcaa cttcatcatg tagccctca taatcaatat 240

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 aattacatac cgccagttca tcagaatata tcttatgcac cagcgcttaa tttacagaag 360
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 aagtaa 1146

<210> 314
 <211> 609
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 314
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 ggctttatga tatgttggtt aacttcacca ataattagaa actgggggct ggctcaagct 120
 gctggagttt catatggtac ctttgggttac tgtaaaactt tgaattcttt ttctgtctct 180
 cgagtacgtt taatatataa cacctcgaaa gaaatattac ctggcccttc tcttgaacgt 240
 tgggtggctga gtcctaaggc aagacatata ataggaggac ttttgatttc gataccgggt 300
 gctacatgtt tgactttcat ttcttttgca cttcccttgg ttattatttt tctttttcag 360
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ttatcaacta tttttgcatg caccgtgatc ctgttacttt gcatgcaccg tgatcctggt 480
acaatttcat ccttatacga cttgggtgtgg ctggctaact gttccctggt cctctctgctc 540
gttattggcg tgcattttct cagtttttagg tttgatacgt ctgcgcagtc agacagaaaa 600
catagctaa 609

<210> 315
<211> 345
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 315
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aggtttaaag atgctactaa gatgtgtttt caccacaaa tgctttcctc gagtgctcgaa 180
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gggctgccta ttagtagtaa atacacagac gggaagaagc gttga 345

<210> 316
<211> 675
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 316
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cctagggtca agtactaccg tggttcctggc gagttcgtgc ccgagtggct tcttctaggt 600
 ctctcgaag gttacgggtcc tgcgagacgt ctagatacta aggctcgac tcttggcgaa 660
 gggtcagtta attag 675

<210> 317
 <211> 1452
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 317

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 tccagactag atttgtatct gacaagaagg aggctggata cgtccatcaa ttacctaca 180
 aacaccaaga ccaaggacca tcccccaat aaagagatgc tgaggattta cgtctacaac 240
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 aatgatcaag atagcaccat gggcgataac gacaacggcg aggatgagga cagtgcagag 540
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 ggaagactat aa 1452

<210> 318
 <211> 2157
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 318

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 aattcgtttt acaagttttt gaactgggtt gacgaccgta cctgggtaccc cctcgggaagg 240
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<400> 319

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<213> *Saccharomyces cerevisiae*

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<400> 321

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 <213> *Saccharomyces cerevisiae*

<400> 322

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<210> 324
<211> 336
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 324

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<213> *Saccharomyces cerevisiae*

<400> 325

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<210> 326
 <211> 2250
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 326

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<210> 327
<211> 375
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 327

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gataaaactac tcagttgtga atcggactgt ttcgcacagt atgtggatgg gcacttgtca 180
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gaatcgcaaa caacacatcc gtcgctgcct ctagtgcag aagttgaaga ggtggctgtg 300
cttgacaagg atgaacttgc agaagccttg gaggagctcg acattttttg tttgattttc 360
agaaaacgaa cgtaa 375

<210> 328
<211> 921
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 328

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aataatgaag aatacataat actctttggc ggaggtcggg acctgatact aggctccctg 180
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aactccagag acaatgaatg a 921

<210> 329
<211> 1302
<212> DNA

<213> Saccharomyces cerevisiae

<400> 329

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tcttctccct ctgaaatcaa cagttattgg aacaagtatt ttggaataa gctactatca 180
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<210> 330

<211> 369

<212> DNA

<213> Saccharomyces cerevisiae

<400> 330

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aagatgtccc ttagttgctc tagagtgcac tcacgcagct tttcttgga atgtttttca 180
aagttagtag acatgttttt ttttttcttt ctgctgtggt atgttagaag gactacagtt 240
tactctaacc taaacctaga gctaccgtca aatatacag tgtattcact ggatttgctt 300
tatgtaattt atatgataaa aacttttcag ctcatcgaga aaaattttct ttctccccc 360
gcaggatag 369

<210> 331

<211> 2142

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 331

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tacgatttca aaatgaacca gcagctggct gagatgcagc agataagaaa caccgtctac 180
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<210> 332
 <211> 3108
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 332

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<210> 333
<211> 1923
<212> DNA
<213> *Saccharomyces cerevisiae*
<400> 333

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taa 1923

<210> 334
<211> 447
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 334
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gaatactaca ctggtgttgc ttggtaa 447

<210> 335
<211> 2667
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 335
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<400> 340

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2139

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<211> 2295

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 342

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 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 344

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 <213> *Saccharomyces cerevisiae*

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<213> *Saccharomyces cerevisiae*

<400> 347

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 <211> 1020
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 <213> *Saccharomyces cerevisiae*

<400> 348

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<212> DNA
<213> *Saccharomyces cerevisiae*

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<211> 2553
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 350

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 <211> 3273
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 351

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<211> 2043
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 361

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<211> 1572
<212> DNA
<213> *Saccharomyces cerevisiae*

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<211> 1770
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 363

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 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 364

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 <213> *Saccharomyces cerevisiae*

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<210> 372
 <211> 2733
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 372

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<211> 2058
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 373

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<210> 374
 <211> 1869
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 374

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 <211> 2289
 <212> DNA
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<400> 375

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 <211> 2718
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<400> 376

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<400> 378

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382

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<400> 382

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<400> 383

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 <211> 369
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 384

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<400> 385

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<211> 1785
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 386

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 <211> 2433
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 388

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 <211> 3141
 <212> DNA
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 <400> 390

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 <212> DNA
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<210> 393
 <211> 2454
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 393

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 <211> 1788
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 394

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<210> 395
 <211> 2640
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 395

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<210> 396
 <211> 2040
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 396

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<400> 405

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 <213> *Saccharomyces cerevisiae*

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 <211> 777
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 <213> *Saccharomyces cerevisiae*

<400> 407

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<210> 408
 <211> 3651
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 408

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 <213> *Saccharomyces cerevisiae*
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<210> 410
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 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 410

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<210> 411
 <211> 1491
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 411

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 <211> 1431
 <212> DNA
 <213> *Saccharomyces cerevisiae*
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<210> 413
<211> 1290
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 413

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<210> 414
<211> 1023
<212> DNA
<213> *Saccharomyces cerevisiae*
<400> 414

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 tag 1023

<210> 415
 <211> 2535
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 415

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 ctaaaaatta ataatcctgc aattgatacg gtaacattga acaccgtcga taccgacatc 180
 cattctgcaa aaatcgggtga tgtcacatct tccgagatta tctctgaaga ggagcaacaa 240
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 <211> 2259
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 416

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 aagcaggtag atttgtccac tgaagtgcaa tttgtgtccg atttattgat tgatgcgggt 180
 gcgtcaaagg ctaaagttaa agaactatcg gaaagtattt tgaagcaatt gactactcaa 240
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 tttttgcaaa tcaacccttt agaattcggg tcatccgctg gtaaatacaa ggatatccat 600
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<210> 417
 <211> 2139
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 417

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ccatttaaaa ttaccaccat tatgtctcca gaagctagat gtacgggtga tgttatgaga 360
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<210> 418
<211> 336
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 418

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cgaaagctgc caggaactgt tcttgatttt ttaggaaaac aattaatagg tatctcgtct 300
agcgtagtat ctcgagtttc cagaagttgc agataa 336

<210> 419
<211> 2460
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 419

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<210> 420
<211> 1668
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 420

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<210> 421
 <211> 2493
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 421

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<211> 1731
<212> DNA
<213> *Saccharomyces cerevisiae*
<400> 422

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<210> 423
 <211> 2199
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 423

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<210> 424
<211> 936
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 424

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<210> 425
 <211> 3405
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 425

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<210> 426
 <211> 345
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 426

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<210> 427
<211> 2841
<212> DNA
<213> *Saccharomyces cerevisiae*

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<210> 428
 <211> 1254
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 428

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<210> 429
 <211> 1362
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 429

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 gaacagcagt atggacagca atatgggcaa caaatgatc agcaattcag tcagcaatat 240
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1362

<210> 430
<211> 1164
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 430

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<210> 431
<211> 2469
<212> DNA

<213> Saccharomyces cerevisiae

<400> 431

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 <211> 2403
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 432

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<210> 433
 <211> 2241
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 433

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<210> 434
 <211> 1812
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 434

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